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Successful ascent cannot be made from tridimensional space to fourdimensional space.

1st.—Because no one knows or can know the direction from 3-fold space to 4-fold, even if the latter exists.

2nd.—Because no one knows or can know that 4-fold space exists for the reason that the fundamental laws of thought are violated in every effort of the mind to cognize it. Legitimate thinking cannot proceed in violation of logical law, but stultification may do so. The so-called “generalized space” of the Metageometers is believed to be the joint product of pseudo-generalization, pseudo-analogical reasoning, and pseudo-analytical interpretation.

JOHN N. LYLE.

BOOKS AND PERIODICALS.

Trigonometry for Schools and Colleges. By Frederick Anderegg, A. M., Professor of Mathematics, and Edward Drake Roe, Jr., A. M., Associate Professor of Mathematics in Oberlin College. 8vo. Cloth, 108 pp. Boston : Ginn & Co.

This little work is a decided improvement over most modern treatises on trigonometry. It treats the subject with clearness and accuracy and leads the student to an easy acquaintance with modern higher mathematics. A number of new features are introduced. This is the first book we have yet seen in which it is shown that Plane Trigonometry is a special case of Spherical Trigonometry. Many other subjects of equal interest and importance are discussed. The authors deserve much credit for this original and unique work.

B. F. F.

An Elementary Treatise on Rigid Dynamics. By W. J. Loudon, B. A., Demonstrator in Physics in the University of Toronto. 8vo. Cloth, 236 pp. Price, \$2.25. New York : Macmillan & Co.

This is a most excellent treatise on Rigid Dynamics. The subjects treated are made very clear and the student is still further aided in grasping those complex and difficult principles by very beautiful and accurate diagrams. Any student who has mastered the calculus can take up this work without any difficulty. At the close of each subject is a list of problems. The book closes with 306 problems all of which are very interesting to the student of dynamics. Some of these excellent problems will appear in future numbers of the MONTHLY.

B. F. F.

Notations de Logique Mathématique. Par G. Peano, Professeur d'Analyse infinitésimale à l'Université de Turin. Introduction au Formulaire de Mathématique Publie par la *Revista di Matematico*, Turin. Pamphlet, 52 pages.

A very interesting and valuable treatment of the notations of mathematical logic.

B. F. F.

Periodico di Mathematica. By L'Insegnamento Secondario. Pubblicato per cura di Aurelio Lugli, Professor di matematica nel R. Istituto tecnico di Roma.

The January-February number of this magazine contains a number of important papers and the solutions of 7 problems. B. F. F.

El Progreso Matemático Periodico de Matemáticas Puras y Aplicadas. Director D. Zoel G. de Galdeano, Catedrático de Geometria Analica en la Universidad de Zaragoza.

In this journal are published problems which are proposed by the best mathematicians in the world. The solutions are illustrated by beautiful diagrams. B. F. F.

Annals of Mathematics. Ormond Stone, Editor, Office of Publication, University of Virginia. Bi-monthly. Price, \$2.00.

The September (1895) number contains the following articles: On the Improbability of Finding Shoals in the Open Sea by Sailing over the Geographical Positions in which they are Charted. By Mr. G. W. Littlehale. Note on the Congruence $2^n \equiv (-1)^n (2n)! / (n!)^2$, where $2n+1$ is a prime. By Prof. Frank Morley. Equations and Variables Associated with the Linear Differential Equation. By Dr. Geo. F. Metzler. The Calculus of Variations. By Dr. Harris Hancock. B. F. F.

March Monthly Magazine Number of The Outlook. Price, \$1. per year in advance. The Outlook Company, 13 Astor Place, New York.

The illustrated monthly "Magazine Number of *The Outlook* for March" has nearly fifty pages of reading matter, and more illustrations than any of the previous issues. Dr. R. L. Dickinson writes as an expert on hygienic and practical aspects of "Bicycling for Women," with cuts showing just what is right and wrong about women's riding; Edward Everett Hale tells of the "Higher Life of Boston;" there is a pleasant "Spectator" talk about picturesque New Orleans; Charleston of to-day is compared with its ante-bellum life in Mr. W. J. Abbot's "From Atlanta to the Sea;" Martin Luther is the subject of a fine article by professor Harnack, the great German theologian; and Mr. A. R. Kimball has a readable article about Penzance and the Newlyn school of artists. All these articles are fully illustrated. Ian Maclaren's novel gains in interest and humor.

The Cosmopolitan. An International Illustrated Monthly Magazine. Edited by John Brisben Walker. Price, \$1.00 per year. Single number, 10 cents. Irvington-on-the-Hudson, New York.

The General of the Army, the General commanding the U. S. Corps of Engineers, Vice-Pres. Webb of the New York Central, and John Jacob Astor, compose *The Cosmopolitan Magazine's* Board of Judges to decide the merits of the Horseless Carriages which will be entered in the May trials, for which the *The Cosmopolitan* offers \$3000 in prizes. This committee is undoubtedly the most distinguished that has ever consented to act upon the occasion of the trial of a new and useful invention. The interest which these gentlemen have shown in accepting places upon the committee is indicative of the importance of the subject, and that the contest itself will be watched with marked interest on both sides of the Atlantic. Frank Stockton's new story, "Mrs. Cliff's Yacht," which begins in the April *Cosmopolitan*, promises to be one of the most interesting ever written by that fascinating story-teller. Readers of "The Adventures of Captain Horn" will find in "Mrs. Cliff's Yacht" something that they have been waiting for.